

**Request to Archive
With The National Centers for Environmental Information
For GOES Land Surface Temperature
Provided by NESDIS>OSDPD>OSPO**

2016-12-23

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

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2. Name the organization or group responsible for creating the dataset.

OSPO

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

This collection includes NOAA GOES East (west) Land Surface Temperature (LST) product with hourly temporal resolution and GOES FD LST product with 3 hourly temporal resolution. Both products are in full horizontal spatial resolution of 4 km. Each product contains LST retrievals, quality control (QC) flags, longitude and latitude. Metadata at file level will be also archived.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 2017-01-02
Ongoing as continuous updates to the data record

5. Edition or version number(s) of the dataset:

Version 2

6. Approximate date when the dataset was or will be released to the public:

2013-07-31

7. Who are the expected users of the archived data? How will the archived data be used?

NCEP POC: Michael EK, Youlong Xia

NCEP has a strong requirement for NESDIS to continually and operationally produce satellite-derived global fields of LST, both from multiple polar orbiters for global coverage and multiple geostationary satellites for high temporal resolution (defining the diurnal cycle) in order to assess and substantially improve the physical simulations of LST in the Noah Land Surface Model (LSM) component of the NCEP Global Forecast System (GFS).

The Noah LSM must provide the atmospheric component of the GFS with accurate simulations of 1) surface sensible heat flux, 2) surface latent heat flux (evaporation), 3) surface upward longwave radiation and 4) surface upward shortwave radiation (albedo). The accuracy of the first three of these four land surface fluxes is critically dependent on

the accuracy of Noah LSM simulations of LST.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

The data products have been produced since early 2013.

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

New archive request.

10. List the input datasets and ancillary information used to produce the data.

MODIS monthly emissivity data from NASA.

11. List web pages and other links that provide information on the data.

<http://satepsanone.nesdis.noaa.gov/pub/GLST/V2/PROD/>

<http://www.ospo.noaa.gov/Products/land/glst/index.html>

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. ATBD, User Manual, maintenance Manual.

13. Indicate the data file format(s).

1. netCDF-4

14. Are the data files compressed?

gzip

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

GOES East Full Disk: glstL3_g13_GEDISK_YYYYJJJ_HHMM_v2.nc.gz

GOES West Full Disk: glstL3_g15_GWDISK_YYYYJJJ_HHMM_v2.nc.gz

GOES East: glstL3_g13_GENHEM_YYYYJJJ_HHMM_v2.nc.gz

GOES West: glstL3_g15_GWNHEM_YYYYJJJ_HHMM_v2.nc.gz

where

glstL3: GOES LST Level3

g13(15): GOES-13(15)

GE(W)DISK: GOES East(West) Full Disk

GE(W)NHEM: GOES East(West) Northern Hemisphere

YYYY:year

JJJ: Julian day

HH:hour

MM:minute

v2:version 2

nc:NetCDF4

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

Please go to following link:

<http://satepsanone.nesdis.noaa.gov/pub/GLST/V2/PROD/>

17. What is the total data volume to be submitted?

Continuous Data: data volume rate for a continuous data production.

Total Data Volume Rate: 3.5GB per Day

Data File Frequency: 64 per Day

Data Production Start: 2013-07-31

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

No additional updates, revisions or replacement data are anticipated.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: NSOF, Camp Spring, MD

System Name: gsrprod/gsrdev

System Owner: OSPO

Additional Information:

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PULL
2. FTP PUSH

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. User interface to order and stage data for download
2. Direct download links

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

There have been many requests to have historical GLST data products from many governmental agencies, universities. We can meet their requests if the generated products can be archived in CLASS.

24. Are the data archived at another facility or are there plans to do so? Please explain.

No

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

No

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

No

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

N/A

29. Is there a desired deadline for NCEI to archive and provide access to the data?

No deadlines for archive or access.

30. Add any other pertinent information for this request.

None